

AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior versions and listings of claims in the above-identified application.

Listing of Claims:

1. (Previously Presented) A digital copying machine comprising:
an image reader that reads an image of an original document and generates image data,
a printing unit that prints based on image data,
a bus that transmits the image data generated by the image reader to an external computer and that transmits image data from the external computer to the printing unit,
a signal generator that generates a signal based on an operation timing of the printing unit, and
switching means that, in response to the signal, switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit.
2. (Original) A digital copying machine as claimed in claim 1, said signal generated by the signal generator is a clock signal issued based on an operation timing for each pixel.

3. (Original) A digital copying machine as claimed in claim 1, said signal generated by the signal generator is a horizontal synchronization signal issued based on an operation timing for each line.

4. (Original) A digital copying machine as claimed in claim 1, said bus includes a read buffer that temporarily stores the image data read by the image reader.

5. (Original) A digital copying machine as claimed in claim 1, said bus includes a print buffer that temporarily stores the image data sent by the external computer.

6. (Previously Presented) A digital copying machine comprising:
an image reader that reads an image of an original document and generates scan image data,
a printing unit that prints based on print image data,
a bus that transmits the scan image data generated by the image reader to an external computer and that transmits the print image data from the external computer to the printing unit,
a read buffer that temporarily stores the scan image data read by the image reader,
a print buffer that temporarily stores the print image data sent by the external computer,

a signal generator that generates horizontal synchronization signals issued based on an operation timing for each line in the printing unit, and

switching means that, in response to a rise and a fall of the horizontal synchronization signals, switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit, whereas scan image data for one line taken out of the read buffer and print image data for one line taken out of the print buffer are alternately transferred via the bus.

7. (Previously Presented) An image data transfer method which is performed in a digital copying machine having an image reader that reads an image of an original document and generates image data, a printing unit that prints based on image data, and a bus that transmits the image data generated by the image reader to an external computer and that transmits image data from the external computer to the printing unit, said method comprising the steps of:

generating a signal based on an operation timing of the printing unit, and

switching, in response to the signal, the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit.

8. (Original) An image data transfer method as claimed in claim 7, said signal generated by the signal generator is a clock signal issued based on an operation timing for each pixel.

9. (Original) An image data transfer method as claimed in claim 7, said signal generated by the signal generator is a horizontal synchronization signal issued based on an operation timing for each line.

10. (Original) An image data transfer method as claimed in claim 7, said bus includes a read buffer that temporarily stores the image data read by the image reader.

11. (Original) An image data transfer method as claimed in claim 7, said bus includes a print buffer that temporarily stores the image data sent by the external computer.

12. (Previously Presented) A controller for controlling transmissions of image data between

a digital copying machine and an external computer, the controller comprising:

a bus that transmits image data generated by an image reader of the digital copying machine to the external computer and that transmits image data from the external computer to a printing unit of the digital copying machine, and

switching means that, in response to a signal that is generated based on an operation timing of the printing unit, switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit.

13. (Previously Presented) A controller as claimed in claim 12, said signal is a clock signal issued based on an operation timing for each pixel.

14. (Previously Presented) A controller as claimed in claim 12, said signal is a horizontal synchronization signal issued based on an operation timing for each line.

15. (Previously Presented) A controller as claimed in claim 12, said bus includes a read buffer that temporarily stores the image data read by the image reader.

16. (Previously Presented) A controller as claimed in claim 12, said bus includes a print buffer that temporarily stores the image data sent by the external computer.

17. (New) The digital copying machine of claim 1, wherein the switching means switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit and back again repeatedly and at predetermined fixed intervals.

18. (New) The digital copying machine of Claim 6, wherein switching means switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit and back repeatedly and at predetermined fixed intervals.

19. (New) The method of claim 7, comprising switching the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit and back again repeatedly and at predetermined fixed intervals.

20. (New) The controller of claim 12, wherein the switching means switches the bus between transmission from the image reader to the external computer and transmission from the external computer to the printing unit and back again repeatedly and at predetermined fixed intervals.